

Unit 4 Worksheet 2 - Angle Sums

Date _____ Period _____

Find the measure of each angle indicated. Classify the triangle by its angles.

1)

53° 49° $?$

$180 - 53 - 49 = 78^\circ$

ACUTE

2)

60° 40° $?$

$180 - 60 - 40 = 80^\circ$

ACUTE

Solve for x.

3)

60° 80° $4x + 4$

$(4x + 4) + 60 + 80 = 180$
 $4x + 4 = 40$
 $4x = 36$
 $x = 9^\circ$

ACUTE

4)

35° $4x + 11$

$(4x + 11) + 35 + 90 = 180$
 $4x + 11 = 55$
 $4x = 44$
 $x = 11^\circ$

RIGHT

Find the measure of each angle indicated.

5)

48° 126° $?$

$126 - 48 = 78^\circ$

6)

76° 34° $?$

$76 + 34 = 110^\circ$

Solve for x.

7)

60° $11x - 11$ $3x + 17$

$(3x + 17) + 60 = 11x - 11$
 $3x + 77 = 11x - 11$
 $77 = 8x - 11$
 $88 = 8x$
 $11 = x$

8)

35° $11x - 5$ $7x + 8$

$35 + (7x + 8) = 11x - 5$
 $7x + 43 = 11x - 5$
 $48 = 4x - 5$
 $48 = 4x$
 $12 = x$

Find the measure of each angle indicated.

